

In the Claims

Claims 1-25 remain in the application and are listed below:

1. (Original) A method comprising:

receiving a command from a decoder application at an application program interface (API); and

generating one or more filter control command data structures, recognizable by a communicatively coupled accelerator including one or more parameters which, when received by the accelerator, affects one or more filter settings of the accelerator based, at least in part, on the content of the received command.

2. (Original) A method according to claim 1, further comprising:

passing the generated filter control command data structures to the accelerator, wherein the accelerator modifies one or more filter settings in accordance with the parameters embedded within the data structure.

3. (Original) A method according to claim 1, wherein the filter is a post-processing filter.

4. (Original) A method according to claim 3, wherein output data subsequent to the application of a post-processing filter are used as prediction references for decoding subsequent data.

1 5. (Original) A method according to claim 3, wherein the post-
2 processing filter is one or more of a deblocking filter, a de-ringing filter, and the
3 like.

4
5 6. (Original) A method according to claim 1, wherein the parameters
6 include a strength parameter.

7
8 7. (Original) A method according to claim 6, wherein the generated data
9 structure includes a strength parameter for each of one or more block boundaries
10 of a frame.

11
12 8. (Original) A method according to claim 1, wherein the API issues
13 filter control commands for each of a number of edges of luminance and
14 chrominance blocks of received media content.

15
16 9. (Original) A method according to claim 1, wherein the API issues
17 macroblock filter control command data structures for each macroblock of video
18 picture content, each macroblock filter control command comprising four (4) or
19 sixteen (16) luminance block filter control command data structures for controlling
20 the filtering of the luminance blocks of the macroblock, and/or two (2), four (4),
21 eight (8), sixteen (16), or thirty-two (32) chrominance block filter control
22 command data structures for controlling the filtering of the chrominance blocks of
23 the macroblock.

1 10. (Original) A storage medium comprising a plurality of executable
2 instructions which, when executed, implement a method according to claim 1.

3
4 11. (Original) A computing system comprising:
5 a storage medium having stored therein a plurality of executable
6 instructions; and
7 an execution unit, coupled to the storage medium, to execute at least a
8 subset of the plurality of executable instructions to implement a method according
9 to claim 1.

10
11 12. (Original) A storage medium comprising a plurality of executable
12 instructions which, when executed, implement an application program interface
13 (API) to dynamically generate one or more filter control command data structures
14 in response to a command received from a decoder application, wherein the one or
15 more filter control command data structure(s) include one or more parameters
16 which, when received by a communicatively coupled accelerator, effect one or
17 more filter settings on the accelerator in accordance with the received command.

18
19 13. (Original) A storage medium according to claim 12, wherein the
20 filter control command data structure(s) effect one or more post processing
21 filter(s) of the accelerator.

1 14. (Original) A storage medium according to claim 12, wherein the
2 filter control command data structure(s) effect one or more of a deblocking
3 filter(s), de-ringing filter(s), and/or another post processing filter of the accelerator
4

5 15. (Original) A storage medium according to claim 12, wherein the
6 API issues a filter control command data structure for each of a number of edges
7 of luminance and chrominance blocks of received media content.
8

9 16. (Original) A storage medium according to claim 15, wherein the
10 API issues four (4) filter control command data structures for each luminance
11 block, and/or two (2) filter control command data structure(s) for each
12 chrominance block.
13

14 17. (Original) A storage medium according to claim 12, wherein the
15 parameter(s) include a filter strength parameter.
16

17 18. (Original) A computing system comprising:
18 a decoder application to process received media content; and
19 an operating system including an application program interface (API),
20 support the media processing, wherein the API generates one or more filter control
21 commands including one or more parameters which, when received by a
22 communicatively coupled media processing accelerator, effect one or more filter
23 settings of the accelerator in accordance with a command received from the
24 decoder.
25

1 19. (Original) A computing system according to claim 18, further
2 comprising:

3 one or more media processing accelerator(s), communicatively coupled to
4 the decoder application via the API, including one or more filter(s) responsive to
5 the filter control command data structures reflecting information received in the
6 command from the decoder.

7
8 20. (Original) A computing system according to claim 19, wherein the
9 filter(s) are post processing filters.

10
11 21. (Original) A computing system according to claim 19, wherein the
12 filter(s) include one or more of a deblocking filter, de-ringing filter, and the like.

13
14 22. (Original) A computing system according to claim 18, wherein the
15 API issues macroblock filter control command data structures for each macroblock
16 of video picture content, each macroblock filter control command comprising four
17 (4) or sixteen (16) luminance block filter control command data structures for
18 controlling the filtering of the luminance blocks of the macroblock, and/or two (2),
19 four (4), eight (8) , sixteen (16) or thirty-two (32) chrominance block filter control
20 command data structures for controlling the filtering of the chrominance blocks of
21 the macroblock.

1 23. (Original) A computing system according to claim 18, wherein the
2 filter control command data structures include a strength parameter to control an
3 amount of filter applied by a receiving filter.

4
5 24. (Original) A computing system according to claim 18, further
6 comprising:

7 a storage medium having stored therein a plurality of executable
8 instructions; and

9 an execution unit, coupled to the storage medium, to execute at least a
10 subset of the plurality of executable instructions to implement the operating
11 system and associated API.

12
13 25. (Original) A computing system according to claim 24, wherein the
14 execution unit executes at least a subset of the plurality of executable instructions
15 to implement the decoder application.